(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 15 August 2002 (15.08.2002)

PCT

(10) International Publication Number WO 02/062693 A1

(51) International Patent Classification⁷: B65H 75/40

(21) International Application Number: PCT/US02/03495

(22) International Filing Date: 5 February 2002 (05.02.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 09/777,420 6 February 2001 (06.02.2001) US

(71) Applicant (for all designated States except US): GREAT STUFF, INC. [US/US]; 555 McCormick Street, San Leandro, CA 94577 (US).

(72) Inventors; and

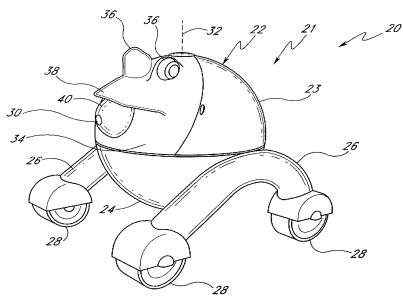
(75) Inventors/Applicants (for US only): WEATHERILL, Sean, B. [US/US]; 17905 Joseph Drive, Castro Valley,

CA 94546 (US). **TRACEY, James, B.A.** [US/US]; 3511 Country Club Place, Danville, CA 94506 (US).

- (74) Agent: ALTMAN, Daniel, E.; KNOBBE, MARTENS, OLSON & BEAR, LLP, 620 Newport Center Drive, 16th Floor, Newport Beach, CA 92660 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), DE (utility model), DK (utility model), DM, DZ, EC, EE (utility model), ES, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK (utility model), SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent

[Continued on next page]

(54) Title: DECORATIVE REEL HOUSING



(57) Abstract: A reel housing (21) enclosing a reel assembly (41) includes a decorative facial indicia element (34, 76). The facial indicia element is secured to a portion of the housing body. In one embodiment, the facial indicia element comprises an access panel (34), wherein opening or removal of the access panel allows access to the interior of the housing. The exterior surface of the access panel is decorated with facial indicia (36, 38, 40) so that the access panel resembles the face of an animal or character. In other embodiments, the facial indicia element is formed integrally with or secured to a portion of the housing other than the access panel. In still other embodiments, the access panel is not included. The exterior surface of the housing has a color design to visually enhance the depiction of the animal or character.



VO 02/062693 A1

WO 02/062693 A1



(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

DECORATIVE REEL HOUSING

Background

Field of the Invention

5

10

15

20

25

30

The present invention relates generally to reels for spooling linear material, and more particularly to reel housings for garden hoses or electrical cables.

Description of the Related Art

In the past, reels have been used for spooling linear material, such as hoses or wires. Many of such reels comprise a rotating reel drum enclosed within a housing during operation. A variety of different types of housings have been used. For example, reel housings have had many different shapes, such as cylindrical, rectangular, octagonal, etc. Generally, there has been very little effort expended in improving the aesthetic appearance of reel housings, especially those of garden hose and cable reels.

Summary

Accordingly, it is a principle object and advantage of the present invention to provide a reel housing having an improved, aesthetically pleasing appearance. Another object is to provide a reel housing whose external appearance is particularly and thematically suited for an outdoor garden.

In accordance with one aspect, the present invention provides a reel housing configured to enclose a rotatable reel drum. The interior of the housing can be accessed by removing or opening an access panel. Accordingly, in one embodiment the access panel is entirely removable. In another embodiment the access panel is hingedly connected to the remainder of the housing body so that it can be opened. The exterior surface of the access panel has facial indicia resembling the face of an animal or character, such as an insect, human, cartoon character, alien or other fantastic creature. In one embodiment, the facial indicia include one or more of (i) a pair of eyes, (ii) a nose or beak, and (iii) a mouth.

In accordance with another aspect, the present invention provides a reel housing configured to enclose a rotatable reel drum. The housing comprises a housing body and a facial indicia element configured to be secured to the housing body. The facial indicia element has an exterior surface decorated with facial indicia to resemble one of an animal, a human, a human-like character, and an alien creature.

In accordance with another aspect, the present invention provides a reel housing configured to enclose a rotatable reel drum. The housing comprises a housing body and a facial indicia element configured to be selectively attached and detached from the housing body. The facial indicia element has an exterior surface decorated with facial indicia to resemble one of an animal, a human, a human-like character, and an alien creature.

5

10

15

20

25

30

In accordance with another aspect, the present invention provides a spherical reel housing configured to enclose a rotatable reel drum. The housing comprises a lower hemisphere, an upper hemisphere, and a facial indicia element configured to be secured to the upper hemisphere. The facial indicia element has an exterior surface decorated with facial indicia to resemble one of an animal, a human, a human-like character, and an alien creature.

In accordance with yet another aspect, the present invention provides a reel housing configured to enclose a rotatable reel drum. The housing comprises a housing body and a facial indicia element. The housing body has a removable access panel. Removal of the access panel from the housing body permits a user to access the interior of the housing body. The facial indicia element is configured to be secured to a portion of the housing body other than the access panel. The facial indicia element has an exterior surface decorated with facial indicia to resemble one of an animal, a human, a human-like character, and an alien creature.

In accordance with yet another aspect, the present invention provides a reel housing configured to enclose a rotatable reel drum. The housing comprises a housing body with facial indicia integrally formed therewith. The facial indicia resembles one of an animal, a human, a human-like character, and an alien creature.

For purposes of summarizing the invention and the advantages achieved over the prior art, certain objects and advantages of the invention have been described herein above. Of course, it is to be understood that not necessarily all such objects or advantages may be achieved in accordance with any particular embodiment of the invention. Thus, for example, those skilled in the art will recognize that the invention may be embodied or carried out in a manner that achieves or optimizes one advantage or group of advantages as taught herein without necessarily achieving other objects or advantages as may be taught or suggested herein.

All of these embodiments are intended to be within the scope of the invention herein disclosed. These and other embodiments of the present invention will become readily apparent to those skilled in the art from the following detailed description of the preferred embodiments having reference to the attached figures, the invention not being limited to any particular preferred embodiment(s) disclosed.

Brief Description of the Drawings

Figure 1 is a perspective view of one embodiment of a reel according to the present invention, the reel having a housing configured to have the appearance of a frog;

Figure 2 is a perspective view of the reel of Figure 1, illustrating the removability of an access panel of the reel housing;

Figure 3 is a perspective view of another embodiment of a reel according to the present invention, the reel having a housing configured to have the appearance of a duck;

5

10

15

20

25

30

Figure 4 is a perspective view of the reel of Figure 3, illustrating the removability of an access panel of the reel housing;

Figure 5 is a perspective view of another embodiment of a reel according to the present invention, the reel having a housing configured to have the appearance of a lady bug;

Figure 6 is a perspective view of another embodiment of a reel according to the present invention, having facial indicia integrally formed with an upper hemisphere of the housing body of the reel;

Figure 7 is a perspective view of another embodiment of a reel according to the present invention, having a facial indicia element that is selectively attachable and detachable from the housing body;

Figure 8 is a perspective view of the reel of Figure 6 or Figure 7, shown with the upper hemispherical shell portion removed;

Figure 9 is a perspective view of another embodiment of a reel according to the present invention, the reel having a removable access panel and facial indicia depicted on a portion of the housing body separate from the access panel; and

Figure 10 is a perspective view of another embodiment of a reel according to the present invention, the reel having an access panel hingedly secured to the remainder of the housing body.

Detailed Description of the Preferred Embodiments

Figures 1 and 2 show one embodiment of a reel having a housing configured according to the teachings of the present invention. Shown is a reel 20 comprising a reel housing 21 enclosing a reel assembly 41 (Figure 2). The reel assembly includes a rotatable reel drum 42. In the illustrated embodiment, the housing 21 is generally spherical and comprises an upper hemisphere or hemispherical shell portion 22 and a lower hemisphere or hemispherical shell portion 24. The lower hemisphere 24 can have legs 26 with attached wheels 28, as shown. Preferably, the wheels 28 are designed for use in a yard or garden. Provided in the upper hemisphere 22 is a guide piece 40 including a guide aperture 30 configured to guide linear material, such as hose or wire, onto the reel drum 42. Preferably, the guide aperture 30 is particularly suited for guiding a length of garden hose and/or electrical cable onto the reel drum 42. While the illustrated reel is spherical, it will be understood that a reel according to the invention can have any of a large variety of different shapes.

Preferably, the hemispheres 22 and 24 are configured to rotate relative to one another about a central vertical axis 32. There is preferably provided an electrical or manual reciprocating mechanism which converts the rotation of the reel drum 42 into reciprocating back and forth rotation of the upper hemisphere 22 relative to the lower hemisphere 24, about the axis 32. This causes the guide aperture 30 to reciprocatingly translate across the rotating drum surface. Such a reciprocating mechanism is disclosed in the commonly owned U.S. Patent No. 6,279,484 to Mead, entitled "Reel Having an Improved

5

10

15

20

25

30

Reciprocating Mechanism," which is hereby incorporated herein by reference in its entirety. Advantageously, the reciprocal motion of the guide aperture 30 causes the linear material to be spooled substantially uniformly onto the drum 42. The skilled artisan will readily appreciate that a number of other reciprocating mechanisms can be employed to distribute linear material across the drum as it winds or unwinds.

In the embodiment of Figures 1 and 2, the upper hemisphere 22 comprises a rear portion 23 and a decorative access panel 34. The panel 34 is preferably configured to be readily removed or opened to allow access to the interior of the housing 21. Removal of the panel 34 thus allows a user to access the reel assembly 41. Alternatively, the panel 34 can be hingedly attached to the rear portion 23 so that the panel 34 can be opened to allow access to the reel assembly. In the illustrated embodiment, the panel 34 has a lower edge 44, which forms a portion of the length of the lower edge of the upper hemisphere 22, and an upper edge 45, which in the illustrated embodiment extends in an arc from the lower edge generally upward to a point at or near the top of the upper hemisphere 22.

The access panel 34 is preferably sized so that removal or opening of the panel 34 allows a user to place one or both of his or her hands inside the spherical reel housing 21. The length of the lower edge 44 of panel 34 comprises preferably at least 20%, more preferably about $30\% \pm 5\%$, and even more preferably up to 50% of the length of the lower edge of the upper hemisphere 22. Further, the housing 21 is preferably large enough so that there is enough room inside for the user to adjust or manipulate the interior assembly as necessary or desired. Preferably, the housing 21 has a diameter of at least 10 inches, more preferably between about 10-30 inches, and even more preferably 15-25 inches.

The outer surface of the panel 34 is decorated with facial indicia, which preferably include one or more of (i) a pair of eyes, (ii) a nose or beak, and (iii) a mouth. For example, the panel 34 shown in Figures 1 and 2 has facial indicia that include a pair of eyes 36, a nose 38, and a mouth formed by guide piece 40. The facial indicia preferably resemble the face of an animal or character (e.g., an insect, human, cartoon character, alien or other fantastic creature). In the illustrated embodiment, the facial indicia resemble a frog's face. The facial indicia preferably include three-dimensional relief, comprising elements which protrude outwardly from the exterior surface of panel 34. In the illustrated embodiment, "three-dimensional" means that the facial indicia deviate from the generally spherical surface of the reel housing 21. For example, the eyes 36, nose 38, and mouth of the panel 34 shown in Figures 1 and 2 are outwardly protruding elements. In other arrangements, the facial indicia can comprise indentations in the exterior surface of the panel 34. The exterior surface of the housing 21, comprising the upper and lower hemispheres 22 and 24, is preferably also colored to match the appearance of the animal or character depicted. For example, the housing 21 shown in Figures 1 and 2 is preferably colored green with some spots to more closely resemble the appearance of a frog.

5

10

15

20

25

30

The guide piece 40, which includes the guide aperture 30, is preferably formed separately from the panel 34. In the illustrated embodiment, the guide piece 40 fits within an orifice 46 in panel 34, shown clearly in Figure 2. In some arrangements, the guide piece 40 is built integrally with the panel 34. In other arrangements, the guide piece is a separate piece that pivots like an ankle joint with respect to the panel 34, so that the guide aperture 30 "follows" the direction that the linear material is pulled toward. In one such arrangement, the orifice 46 is provided with inner rollers that allow the guide piece 40 to pivot like an ankle joint with respect to the panel 40.

The guide piece 40 preferably includes a friction-reducing element therein, which permits the linear material to be more easily pulled through the guide aperture 30. In one embodiment, the friction-reducing element comprises an assembly of rollers that roll against the linear material as it slides through the aperture 30, such as, for example, the roller assembly shown in the above-mentioned U.S. Patent No. 6.279.848 to Mead.

The access panel 34 is preferably configured to be interlockingly and non-movably engaged with the rear portion 23 of the upper hemisphere 22, preferably by a conventional latching mechanism or a friction fit. Those skilled in the art will understand that any of a variety of connection methods may be used, including snap-on engagements, nut and bolt combinations, etc. Desirably, the connection method includes a quick-release mechanism for easy and convenient removal or opening of the access panel 34. The access panel 34 can also be configured so that its lower edge 44 can engage the upper edge of the lower hemisphere 24. In a preferred embodiment, the panel 34 is rotatable with respect to the lower hemisphere 24 about the axis 32, preferably as described in the above-mentioned U.S. Patent No. 6,279,848 to Mead. When engaged together, the rear portion 23, the panel 34, and the lower hemisphere 24 form a generally spherical shape.

The housing 21, comprising the lower hemisphere 24, the rear portion 23, and the access panel 34, can be formed from a variety of materials, such as plastic, metal, composites, etc., giving due consideration to the goals of durability, long outdoor life, ease of manufacturing, and reduced expense. In the illustrated embodiment, the elements of the housing 21 are preferably molded plastic. The legs 26 are preferably formed from plastic, and are attached to the lower hemisphere 24 by any suitable manner. The wheels 28 are preferably formed from plastic, and are preferably at least 3 inches in diameter.

Figures 3 and 4 show another embodiment of a reel housing having features according to the present invention. The illustrated embodiment is a reel 50 having a housing 51 that is identical in every aspect to the reel housing 21 shown in Figures 1 and 2, with the exception that it is decorated differently. In particular, the housing 51 includes an access panel 54 in place of the access panel 34 from the previous embodiment. The illustrated panel 54 has different facial indicia than the panel 34 of Figures 1 and 2. The illustrated panel 54, which includes a pair of eyes 56 and a beak 58, is configured to resemble

5

10

15

20

25

30

a duck's face. Also, the exterior surface of the housing 51 can have a different color design, to match the appearance of a duck. For example, the housing 51 is preferably colored yellow. Apart from these differences in the panel, the housing 51 is preferably otherwise identical to the housing 21 of Figures 1 and 2. Both have identical rear portions 23, lower hemispheres 24, legs 26, and wheels 28. The only differences are those decorative aspects mentioned above.

Figure 5 shows yet another embodiment of a reel having features according to the present invention. Figure 5 shows a reel 60 having a housing 61 including an access panel 64. Again, the only differences between the illustrated reel housing 61 of Figure 5 and the illustrated reel housings 21 and 51 of Figures 1 and 3, respectively, are that the panel 64 has different facial indicia and that the exterior surface of housing 61 has a different color design. In particular, the illustrated panel 64 has only a single facial feature formed by the guide piece 40, and the exterior surface of the housing 61 is colored red with black spots to resemble a ladybug.

Those skilled in the art will appreciate that any of a large variety of different animals or characters may be depicted by the reel housing without departing from the spirit and scope of the present invention. Various different facial indicia can be provided on the access panel of the reel housing, and the exterior surface of the housing can have many different color designs. The housing preferably depicts one of an animal, a human, a human-like character, and a fantastic or alien creature. It may depict a fictional or non-fictional character. Preferably, the reel housing depicts an animal or character associated with the outdoors, such as the illustrated aquatic animals and insects. As a result, the reel is more aesthetically suited for outdoor placement, such as in a yard or garden.

The reel housings of the present invention may be provided in various different sizes, to accommodate differently sized reel assemblies. Advantageously, the reel housing embodiments described above are structurally similar, simplifying the manufacturing process. For one size of the reel housing, it is not necessary to manufacture different types of rear portions 23 and lower hemispheres 24. In fact, the only elements that have varying structural configurations between the various embodiments are the access panels 34, 54, and 64. For a single reel housing size, the various different panels may be sized and configured to engage a single size and configuration of the rear portion 23 and the lower hemisphere 24. This greatly reduces the costs associated with manufacturing the housing. Also, different access panels are advantageously interchangeable between different reel housings, if desired.

After an access panel is chosen for a particular housing, the exterior surface of the housing, including the panel, can then be colored. Alternatively, the housing can be formed from a colored material. For example, the illustrated reel 20 (Figures 1 and 2), which is configured to have the appearance of a frog, is preferably colored generally green with, perhaps, differently colored eyes. The illustrated reel 50 (Figures 3 and 4), which is configured to have the appearance of a duck, is preferably

5

10

15

20

25

30

colored generally yellow with an orange beak and, perhaps, differently colored eyes. The illustrated reel 60 (Figure 5), which is configured to have the appearance of a ladybug, is preferably colored generally red with black spots.

Figure 6 illustrates another embodiment of a reel according to the present invention. The illustrated reel 70 has a housing body comprising a lower hemispherical shell portion 72 and an upper hemispherical shell portion 74. The reel 70 of Figure 6 is designed such that a user must remove the upper hemisphere 74 in order to access the interior of the housing body, and in particular, the enclosed reel assembly 41. Figure 8 shows the reel with the upper hemisphere removed.

Referring to Figure 6, facial indicia comprising a pair of eyes 36 and a nose 38 are formed integrally with the upper hemisphere 74. Also, a mouth is formed by a guide piece 40. In the illustrated embodiment, the facial indicia resembles the face of a frog and is similar in appearance to the access panel 34 of the reel 20 illustrated in Figure 1. However, those of ordinary skill will understand that the facial indicia may depict a variety of different types of creatures or characters, including, for example, those of other animals, humans, human-like characters, or alien creatures.

Figure 7 illustrates another embodiment of a reel according to the present invention. The illustrated reel 90 includes a housing body comprising a lower hemisphere 72 and an upper hemisphere 74. A facial indicia element 76 is secured to the housing body, preferably to the upper hemisphere 74. The facial indicia element 76 can be secured to the upper hemisphere 74 by any of a variety of different means, including, for example, adhesive bonding, nut and bolt combinations, Velcro attachments, etc. Preferably, the facial indicia element 76 is configured to be selectively attached and detached from the upper hemisphere 74, such that any one of a variety of different types of facial indicia elements can be used with the reel 90 to effect different aesthetic appearances. Figure 7 illustrates a preferred configuration, in which the facial indicia element 76 includes a plurality of snap engagement members 79 configured to be received within corresponding openings, such as holes 78, provided within the upper hemisphere 74. Preferably, a variety of different types of facial indicia elements 76 are provided, each including similarly configured snap engagement members 79 that can be received within the holes 78. Advantageously, a user can selectively attach any desired facial indicia element 76 to the same upper hemisphere 74 of the reel housing body. Like the reel 70 of Figure 6, access to the interior reel assembly

Figure 9 illustrates a reel 82 according to another embodiment of the invention. The reel 82 includes a lower hemisphere 72 and an upper hemisphere 74. The upper hemisphere 74 comprises a main portion 75 on which is formed or secured a facial indicia element 76. The upper hemisphere 74 also includes a rear access panel 77, which is removable to permit access to the interior of the reel housing body and, in particular, the reel assembly 41. The facial indicia element 76 can be formed integrally with

41 of the reel 90 is effected by removal of the upper hemisphere 74, as shown in Figure 8.

the main portion 75. Alternatively, the facial indicia element 76 can be secured to the main portion 75 by any of a variety of means, including, as mentioned above, adhesive bonding, nut and bolt combinations, Velcro attachments, etc. Preferably, the facial indicia element 76 is configured to be selectively attached and detached from the main portion 75 of the upper hemisphere 74. Preferably, the access panel 77 includes a plurality of snap engagement members 73 configured to provide a locking engagement with the main portion 75 of the upper hemisphere 74. Those of ordinary skill will understand that alternative interlocking features may be provided. It will further be understood that interlocking features may be omitted from the design.

10

5

Figure 10 illustrates a reel 84 according to another embodiment of the invention. The reel 84 is similar in most respects to the reel 82 shown in Figure 9, with the exception that the access panel 77 is hingedly secured to the main portion 75 of the upper hemisphere 74. In the illustrated embodiment, the access panel 77 is secured to the main portion 75 via a hinge 80 located at the top of the main portion 75. The access panel 77 has an open position (shown in Figure 10) in which a user can access the interior of the housing body and, in particular, the reel assembly 41. The access panel 77 also has a closed position in which the panel is turned downward to completely enclose the reel assembly 41 and so that the upper hemisphere 74 has a semispherical shape. If desired, the access panel 77 can include snap engagement members or other interlocking features to provide a stable connection with the main portion 75 of the upper hemisphere 74.

20

15

Although this invention has been disclosed in the context of certain preferred embodiments and examples, it will be understood by those skilled in the art that the present invention extends beyond the specifically disclosed embodiments to other alternative embodiments and/or uses of the invention and obvious modifications and equivalents thereof. Thus, it is intended that the scope of the present invention herein disclosed should not be limited by the particular disclosed embodiments described above, but should be determined only by a fair reading of the claims that follow.

WHAT IS CLAIMED IS:

5

10

15

20

25

30

1. A reel housing configured to enclose a rotatable reel drum, said housing comprising a housing body and a facial indicia element configured to be secured to said housing body, said facial indicia element having an exterior surface decorated with facial indicia to resemble one of an animal, a human, a human-like character, and an alien creature.

- 2. The reel housing of Claim 1, wherein said facial indicia element is configured to be selectively attached and detached from said housing body.
- 3. The reel housing of Claim 1, wherein said housing body includes an access panel having a closed position in which said access panel does not permit a human hand to access an interior of said housing, and an open position in which said access panel permits a human hand to access said interior of said reel housing.
- 4. The reel housing of Claim 3, wherein said facial indicia element is configured to be secured to said access panel.
- 5. The reel housing of Claim 3, wherein said facial indicia element is configured to be secured to a portion of said housing body other than said access panel.
- 6. The reel housing of Claim 1, wherein said housing body is spherical and comprises an upper hemispherical shell portion and a lower hemispherical shell portion configured to rotatably engage one another, said upper hemispherical shell portion configured to be removed from said lower hemispherical shell portion to permit access to an interior of said reel housing.
- 7. The reel housing of Claim 1, wherein said housing body includes one or more openings, and said facial indicia element includes snap engagement members configured to be lockingly received within said openings.
- 8. The reel housing of Claim 1, wherein said facial indicia element is configured to be bolted onto said housing body.
- 9. The reel housing of Claim 1, wherein said facial indicia element is configured to be bonded onto said housing body.
- 10. The reel housing of Claim 1, wherein said facial indicia element comprises an access panel having a closed position in which said access panel does not permit a human hand to access an interior of said housing, and an open position in which said access panel permits a human hand to access said interior of said housing.
- 11. The reel housing of Claim 1, wherein said facial indicia element is hingedly attached to said housing body.
- 12. The reel housing of Claim 1, wherein said facial indicia includes one or more of (i) a pair of eyes, (ii) a nose or beak, and (iii) a mouth.

5

10

15

20

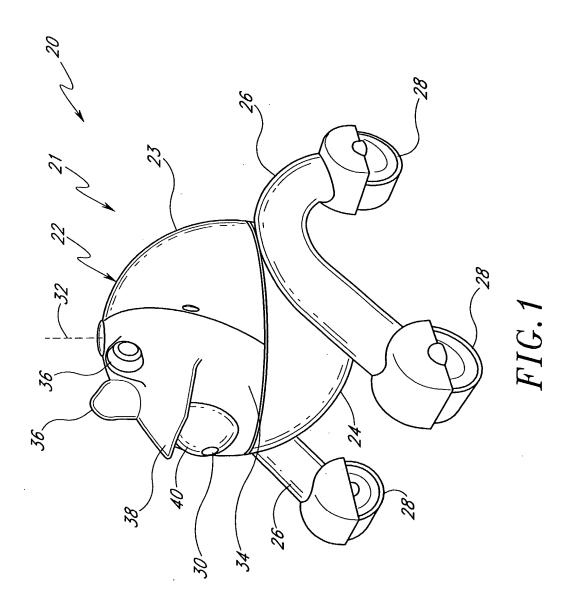
25

30

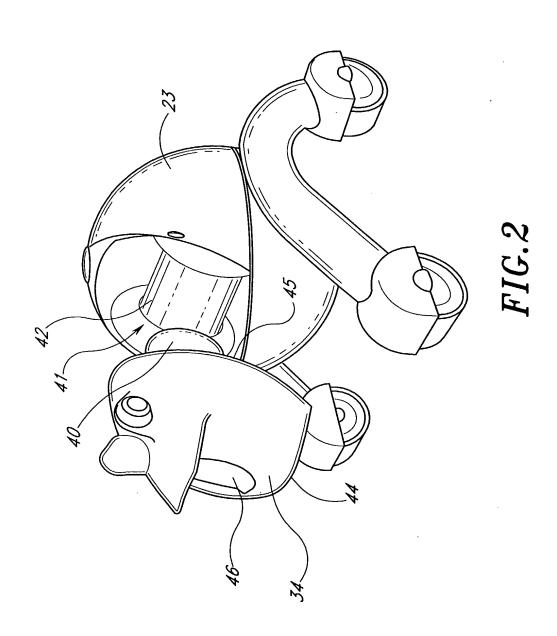
13. The reel housing of Claim 1, wherein said facial indicia are three-dimensional in form.

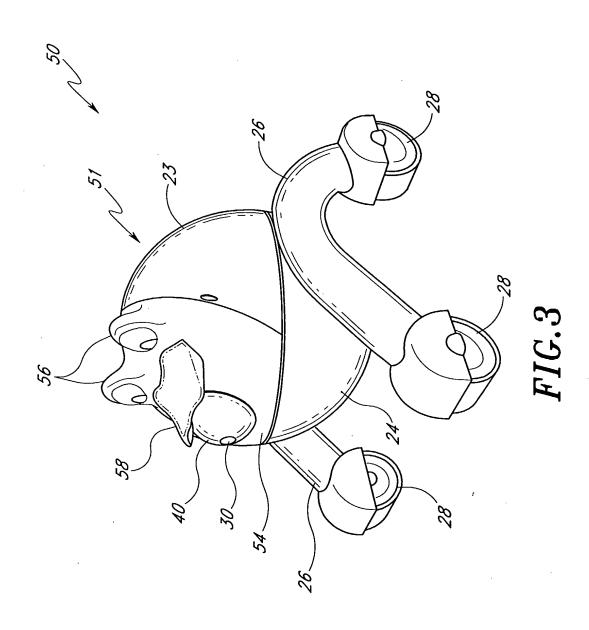
- 14. The reel housing of Claim 13, wherein said facial indicia comprise elements protruding outward from said facial indicia element.
- 15. The reel housing of Claim 13, wherein said facial indicia comprise indentations in said exterior surface of said facial indicia element.
 - 16. The reel housing of Claim 1, wherein said housing encloses a rotatable reel drum.
- 17. The reel housing of Claim 1, wherein said facial indicia resemble the appearance of an insect's face.
- 18. The reel housing of Claim 1, wherein said facial indicia resemble the appearance of a ladybug's face.
- 19. The reel housing of Claim 1, wherein said facial indicia resemble the appearance of an aquatic animal's face.
- 20. The reel housing of Claim 1, wherein said facial indicia resemble the appearance of a frog's face.
- 21. The reel housing of Claim 1, wherein said facial indicia resemble the appearance of a duck's face.
- 22. The reel housing of Claim 1, wherein said facial indicia resemble the appearance of a character.
- 23. A reel housing configured to enclose a rotatable reel drum, said housing comprising a housing body and a facial indicia element configured to be selectively attached and detached from said housing body, said facial indicia element having an exterior surface decorated with facial indicia to resemble one of an animal, a human, a human-like character, and an alien creature.
- 24. A spherical reel housing configured to enclose a rotatable reel drum, said housing comprising a lower hemisphere, an upper hemisphere, and a facial indicia element configured to be secured to said upper hemisphere, said facial indicia element having an exterior surface decorated with facial indicia to resemble one of an animal, a human, a human-like character, and an alien creature.
- 25. A reel housing configured to enclose a rotatable reel drum, said housing comprising a housing body and a facial indicia element, said housing body having a removable access panel, wherein removal of said access panel from said housing body permits a user to access the interior of said housing body, said facial indicia element configured to be secured to a portion of said housing body other than said access panel, said facial indicia element having an exterior surface decorated with facial indicia to resemble one of an animal, a human, a human-like character, and an alien creature.

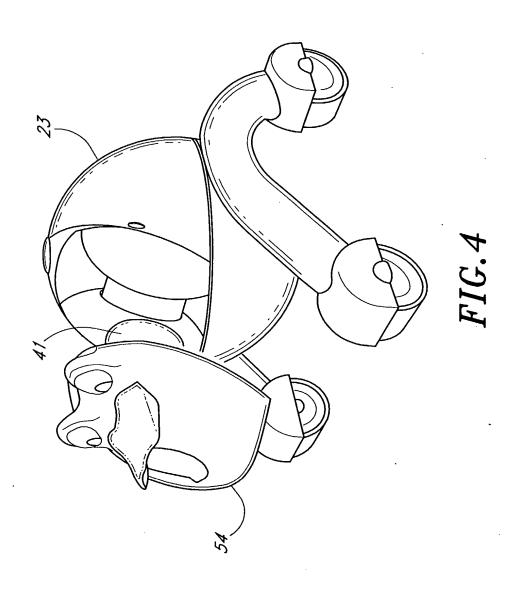
26. A reel housing configured to enclose a rotatable reel drum, said housing comprising a housing body with facial indicia integrally formed with said housing body, said facial indicia resembling one of an animal, a human, a human-like character, and an alien creature.

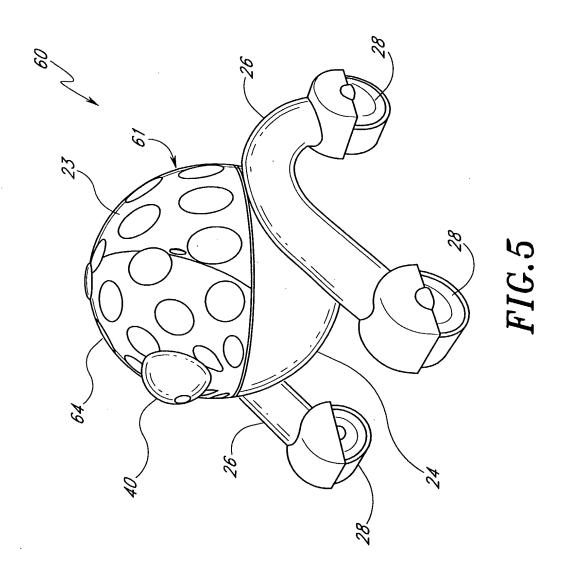


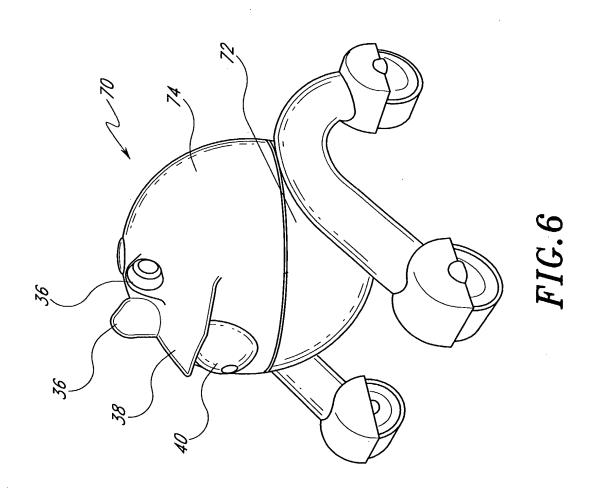
2/10



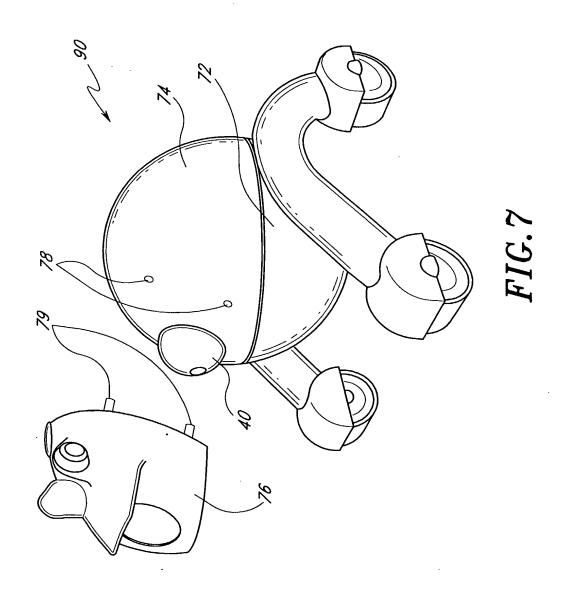




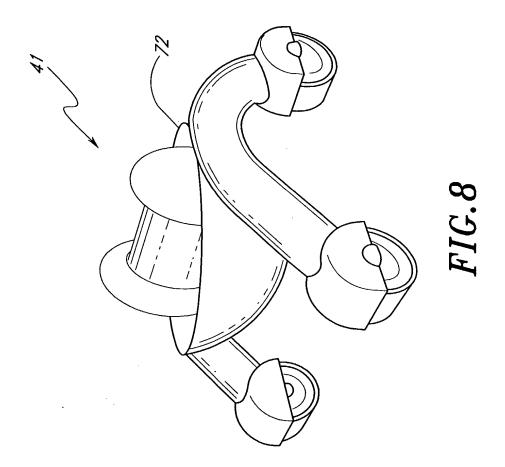


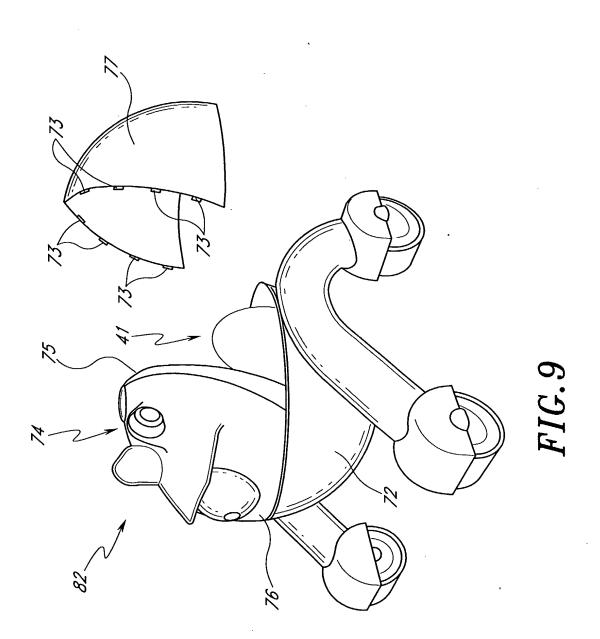


7/10



8/10





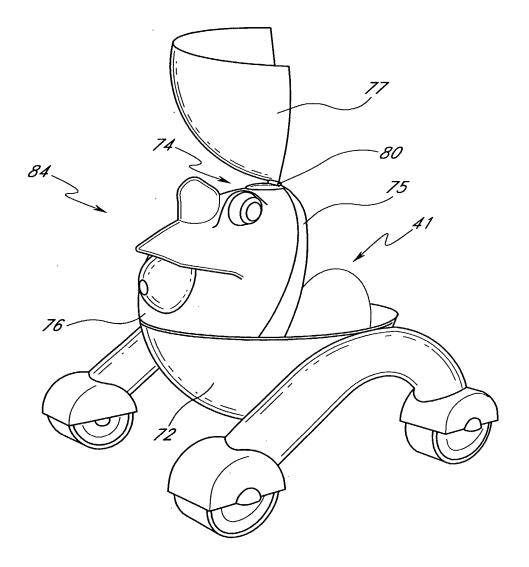


FIG. 10

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 02/03495

			101/03 02/	U3793
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER B65H75/40	-		
According to	o International Patent Classification (IPC) or to both national classifica	ation and IPC		
B. FIELDS	SEARCHED			
Minimum do IPC 7	cumentation searched (classification system followed by classification B65H	on symbols)		
Documentat	ion searched other than minimum documentation to the extent that s	uch documents are inclu	uded in the fields sea	urched
Electronic da	ata base consulted during the International search (name of data ba	se and, where practical	search terms used)	
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages		Relevant to claim No.
X	US 5 988 207 A (C. D. KORNACKI ET 23 November 1999 (1999-11-23) the whole document	AL.)		1-26
Α	US 5 634 615 A (SHUN-TIAN SHUEN) 3 June 1997 (1997-06-03)			
Furth	ner documents are listed in the continuation of box C.	X Patent family	members are listed in	annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search "T" later document published after the internation or or priority date and not in conflict with the active document published after the international corpriority date and not in conflict with the active document of particular relevance; the claimed cannot be considered novel or cannot be consider				ne application but any underlying the aimed invention be considered to ament is taken alone aimed invention antive step when the be other such docu- to a person skilled
	June 2002	10/06/2	002	
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer D'Hulst	er, E	

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inte al Application No PCT/US 02/03495

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5988207	Α	23-11-1999	NONE	
US 5634615	Α	03-06-1997	NONE	